

Title (en)
POWER CONVERSION DEVICE

Title (de)
LEISTUNGSWANDLER

Title (fr)
DISPOSITIF DE CONVERSION DE PUISSANCE

Publication
EP 4318919 A4 20240228 (EN)

Application
EP 21934901 A 20210331

Priority
JP 2021013862 W 20210331

Abstract (en)
[origin: EP4318919A1] A control unit (30) of a power conversion device (100) has a first control mode for controlling circulation current (Icc) circulating among leg circuits (25) for the respective phases in a power converter (1) so that an AC component having a frequency that is an even multiple other than a multiple of 3 with respect to the frequency of a fundamental component of AC is contained in the circulation current (Icc), and determines whether to make the first control mode active or inactive, on the basis of the voltage value of an energy storage element (12).

IPC 8 full level
H02M 7/48 (2007.01); **H02M 1/00** (2006.01); **H02M 1/14** (2006.01); **H02M 1/15** (2006.01); **H02M 7/483** (2007.01); **H02M 7/49** (2007.01)

CPC (source: EP US)
H02M 1/0048 (2021.05 - EP); **H02M 1/14** (2013.01 - EP); **H02M 1/15** (2013.01 - EP); **H02M 7/48** (2013.01 - EP); **H02M 7/4833** (2021.05 - EP); **H02M 7/4835** (2021.05 - EP US); **H02M 7/49** (2013.01 - EP US); **H02M 1/325** (2021.05 - US)

Citation (search report)

- [IA] US 2017054294 A1 20170223 - LYU YADONG [US], et al
- [I] US 2014226373 A1 20140814 - PARK JUNG WOO [KR], et al
- [I] CN 106357143 A 20170125 - UNIV CHONGQING
- See also references of WO 202208735A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4318919 A1 20240207; **EP 4318919 A4 20240228**; JP 7038936 B1 20220318; JP WO2022208735 A1 20221006; US 2024128889 A1 20240418; WO 2022208735 A1 20221006

DOCDB simple family (application)
EP 21934901 A 20210331; JP 2021013862 W 20210331; JP 2021577985 A 20210331; US 202118276447 A 20210331